LOREX VANTAGE

Quick Setup Guide

ECO LH110 Series
Digital Video Surveillance Recorder

Instant Mobile Viewing

Easy Connect Wizard

PACKAGE CONTENTS:

1 X Eco Digital Video Recorder With Pre-Installed HDD*
1 X USB Mouse
1 X Power Adapter
1 X Remote Control
1 X Ethernet Cable
1 X Instruction Manual
1 X Quick Start Guide
1 X CD

ATTENTION:

- This guide refers only to the DVR set-up.
- DVR model, number of channels/port configuration and HDD (hard disk drive) capacity may vary by model. Check your package for specific content information.
- Monitor and cameras are not included.
- Broadband router and computer are required for local and remote monitoring (not included).

It's all on the Web

For detailed setup information, please refer to your included User's Manual. For additional information, please visit our website **www.lorextechnology.com**

*** For setup of Instant Mobile Viewing refer to your User Manual.**

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BASIC SETUP

STEP 1

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Hand Tools | Skills - Easy

Connecting Cameras (not included)

1 Connect BNC cameras to the BNC ports (**VIDEO INPUT**) on the rear panel.

NOTE: Test the cameras prior to selecting a permanent mounting location by temporarily connecting the cameras and cables to your DVR.

NOTE: the four channel model is shown

Connecting the USB Mouse

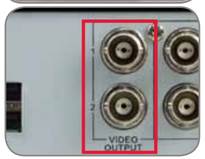
2 Connect the USB mouse to the top USB port on the back panel of the DVR.

Connecting a Monitor (not included)

3a Connect the VGA cable (not included) from your LCD monitor to the VGA port on the rear panel of the DVR.

OR

3b From one of the **VIDEO OUTPUT** ports connect a BNC terminated cable (not included) to a TV or CCTV monitor.

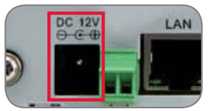


Connecting the Ethernet Cable

4 Connect one end of the Ethernet cable to an available LAN port of your router (not included) and the other end to the DVR's Network Port.

Powering ON the DVR

5 Connect the power cable to the DC 12V port on the rear panel and the power cord into an electrical outlet. The system turns on automatically once the power cord is plugged in. At startup, the system performs a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.



NOTE: Make sure all cameras and cables are properly connected prior to powering on the system.

NOTE: If your monitor is not automatically detected, the DVR front panel buttons, mouse and remote control may not respond. To fix this, simply press "0" three times on the remote control. Alternatively, you can press and hold the ◀◀ (rewind) button (on 4 and 8 channel units) or the "0" button (on 16 channel units) on the DVR front panel until you hear a beep. For more information, please refer to the User's Manual.

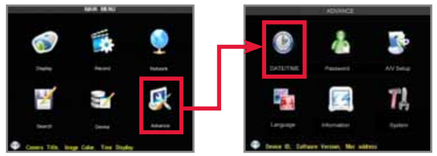
BASIC SETUP

STEP 1 Continued

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Hand Tools | Skills - Easy

Setting the Date & Time

6 1. Right-click anywhere on the screen to open the Sub-Menu and select **MAIN MENU**.
2. Click **Advance > DATE/TIME**.
3. Configure the date and press **UPDATE NOW** to save your settings. Press **APPLY** and then **EXIT**.



It is important to set the correct time to assure accurate time stamps on video recordings.

Managing Passwords

7 By default, passwords are disabled on the system. You do not need to enter a password when accessing any system menus.

NOTE: By default, the DVR username and password are left blank

NOTE: For security purposes, it is highly recommended to enable passwords on the system using the Password Menu. Please refer to the owner's manual for more information.

NAVIGATION AND CONTROLS

STEP 2

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Skills - Easy

Using the Main Menu

1 Right-click anywhere on-screen to open the Sub-Menu and select **MAIN MENU** (mouse only), or press the **SEL** button on the remote control or the PTZ button on the system front panel of the DVR.

NOTE: If passwords are enabled on the system, you need to select your Device ID and enter the 6-digit numerical password to open the Main Menu.

1. Display 4. Search
2. Record 5. Device
3. Network 6. Advance

Using a Mouse (Recommended)

2 1: Left-Button: Click to select a menu option; during live viewing in split-screen, double-click on a channel to view the selected channel in full-screen.; double-click the channel again to return to split-screen view.
2: Right-Button: Click to open the Sub-Menu or to exit from a menu.
3: Scroll-Wheel: No function.

Other Control Options

3 The DVR can also be controlled using the front panel buttons and the included remote control. Please refer to the User's Manual for more information on these methods.

Front Panel Buttons

Remote Control

You have completed STEPS 1 & 2 successfully. Your DVR is now ready to use. Refer to the owner's manual to learn how to record, playback, search and for all other features available with this DVR.

SET-UP LOCAL VIEWING ON YOUR PC

STEP 3

BASIC INSTALLATION GUIDE
Time: 30 Minutes | Hardware: PC/Router | Skills - Intermediate

Retrieve the DVR Information

1 This step will teach you how to locally view your system over the LAN (local area network) using your PC.

NOTE: This method only works if your computer is on the same network as the DVR.

To record your IP Address and Web Port Number right-click in the viewing window, and then click **Main Menu>Advance>Information**

Record the information in the section below:
IP ADDRESS: _____
MAC ADDRESS: _____
(Required for DDNS registration)

Logging into Lorex Web Client (LOCALLY)

2 1. Launch **Internet Explorer.**
2. In the address bar, enter the **IP address of your DVR** (recorded in the previous step)

NOTE: Enter http:// followed by the IP address of your DVR (recorded in step 3-1), then a colon followed by the Web Port number **(i.e. http://192.168.X.XXX).**

3. Enter your **user name** and **password**, then click **LOGIN.**

Your default login:
Username is "**admin**"
Password is left blank

4. You must install the ActiveX® plug-in for DVR Netviewer to function. Click the attention bar at the top of the main page and select **Install ActiveX Control.** Lorex Web Client will reset.
5. Log in with your **LAN** user name and password. From the security window, click **Install.**

Live Viewing Using the Web Client (LOCALLY)

3 Upon login, the Web Client main screen appears in your browser.

For a full explanation of all the buttons and features, please refer to the User's Manual.

Congratulations! You can now view & playback video on your via your LAN.

REMOTE INSTALLATION GUIDE

STEP 4

Time: 20 Minutes | Hardware: PC | Skills - Intermediate

1 Auto Port Forward Wizard

NOTE: You must be on the same network as the DVR when setting up the DDNS.

The Lorex Auto Port Forwarding Wizard is a software that automates router port forwarding.

You must have the following before you configure the software:

1. Your router's **model** and **version** numbers
2. Your router's **user name** and **password**
3. Your Lorex device's **IP** address **(recorded in Step 3-1)**
4. Your Lorex device's **port** numbers that require port forwarding (80, 9000, 1025)

2 Installation

1. Insert the system's software CD, and follow the instructions to launch the **Lorex Auto Port Forwarding Wizard** software.

3 1: Populate the Router Database

The Auto Port Forwarding Wizard automatically populates a list of current routers, and detects the number of connected routers.

1. Click the **Next** button after the software detects your router configuration.

2: Enter your Router Settings

1. Under the Router drop-down list, select the model of your router **OR** click the **Search** button to enter the name of your router model.

NOTE: Ensure you select the proper model and firmware number of the router (as it appears on the back of the router)

IMPORTANT: Default ports that must be port forwarded for remote access:
Port **80** (Web Port)
Port **9000** (Media RTSP Streaming Port)
Port **1025** (Mobile Connectivity Port)

NOTE: Click the **Auto Detect** button if you have a Linksys or Netgear router (this works with most models).

2. Under **Router IP**, click the **Detect Router IP button**. The router's IP populates in the blank field.
3. Under **Username** and **Password**, enter the router's username and password.
4. Under **IP**, enter the IP address of your Lorex device as recorded in Step 3-1.
5. Under **Port**, enter the port number(s) that require forwarding (80, 9000, 1025).
6. Click **Next** to continue.

STEP 4 Continued

3: Update the Router Settings

1. Click the **Update Router** button. The program begins updating the router settings. This may take 20 - 30 seconds.
2. Close the **update** window when the update finishes.

NOTE: You may have to manually save your router settings after the software makes the required changes to your router.

4: Test your Connection

1. Click the **Test Your Connection** button. Your system's default browser opens and connects to your Lorex device. **NOTE:** Ensure that Internet Explorer is your system's default internet browser.

4 Optional: Manual Port Forward

If you were unable to port-forward your router automatically using the wizard, you will need to do so manually.

All routers are different. To port forward your router, please refer to your router's user manual.

An example of a port forwarding screen is shown for illustration purposes.

EXAMPLE

Application	Port Range Start	End	Protocol	IP Address	Enable
Web	80	to 80	Both	192.168.1. 12	☑
Media	9000	to 9000	Both	192.168.1. 12	☑
Mobile	1025	to 1025	Both	192.168.1. 12	☑

5 DDNS (Dynamic Domain Name System) Set-up

Open your web browser (Internet Explorer by default) and enter http://www.lorexddns.net in the address bar.

STEP 4 Continued

6 Create Account

Click the "Create Account" button.

7 Complete New Account Information

1. Complete the **Account Information** fields with your personal information. Complete the Warranty Information with your purchase details.
2. Complete the System Information fields.
3. **Product License (Code)**: Select your product model from the Product License drop down menu.
4. **MAC Address**: The physical address of your system on your network.
5. **URL Request**: Enter a unique URL name (e.g. **tomsmith**).
   NOTE: URL name should not be more than 15 characters.
6. Click **Create New Account** to create a new account and save your settings.
7. **Your Account** information will be sent to you at the email address you provided earlier.

8 Registration E-mail

An automated **REGISTRATION CONFIRMATION E-MAIL** will be sent to your email. Print and Save this confirmation. You will need this information to access your System remotely.

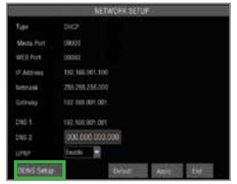
Service Provider: dns1.lorexddns.net
Domain Name: tomsmith.lorexddns.net
User ID: tomsmith
Password: (your password)

EXAMPLE

STEP 4 Continued

9 Enable DDNS on the DVR

1. Right-click in the main viewing window, and then click **Main Menu>Network**.
2. Click **DDNS Setup**.
3. In the **DDNS** drop-down menu, select **Enable.**



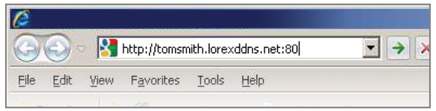
10 Enter the DDNS Information into the DVR

Enter the following into the **DDNS Setup** menu:

- **Host Name**: Enter the first portion of your DDNS name. For example, if your DDNS address is tomsmith.lorexddns.net, enter tomsmith.
- **User Name**: Enter your DDNS user name that was e-mailed to you after DDNS registration.
- **Password**: Enter your DDNS account password that was e-mailed to you after DDNS registration.

11 Logging into DVR Web Client (REMOTELY)

To access your DVR remotely, enter the DDNS address that you created earlier into Internet Explorer. The DDNS URL must include **http://** , the name of your DDNS URL, **followed by a colon**, then the **web port number of your DVR**.



Example of a DDNS address:
http://tomsmith.lorexddns.net:80
DDNS name you created
Colon
Web Port Number

STEP 4 Continued

Installing ActiveX Plug-ins

When connecting to your system the first time, you will have to install an ActiveX plug-in for Internet Explorer.

To install ActiveX® plug-ins on Internet Explorer:

1. Log in to your system using Internet Explorer.
2. Click the ActiveX banner near the top of the browser, and then click **Run Add-on**.

Logging into the System

1. In the User Name field, enter the system's user name.
2. In the Password field, enter the system's password.
3. Select the Open All Channels Preview checkbox.
4. Click Login to connect to the system.

NOTE: The default login name is "admin". The password is left blank.

NOTE: Certain ISP (Internet Service Providers) block port 80. If you are unable to connect, check with your ISP and consult with the user manual for instructions on changing the web port. Make sure to port forward your revised web port.

Lorex Web Client Screen

Upon login, the Web Client main screen appears in your browser.

For a full explanation of all the Web Client buttons and features, please refer to the User's Manual.

Congratulations! You have completed Step 4 successfully. You can now connect over the internet to view and playback video.

For Instant Mobile Connectivity using a Smart Phone, refer to the User's Manual.
Make sure to complete Port Forwarding Step 4.